

# PATENT COOPERATION TREATY

TRANSLATION

From the  
INTERNATIONAL SEARCHING AUTHORITY

## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing  
(day/month/year)

Applicant's or agent's file reference

**000004103PCT**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/JP2005/000326**

International filing date (day/month/year)

**06.01.2005**

Priority date (day/month/year)

**07.01.2004**

International Patent Classification (IPC) or both national classification and IPC

Applicant

**DAICEL CHEMICAL INDUSTRIES, LTD.**

1. This opinion contains indications relating to the following items:

- |                                     |              |  |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the opinion   |
| <input type="checkbox"/>            | Box No. II   | Priority   |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability   |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention   |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited  |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application   |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application  |

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(h) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

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International application No.

PCT/JP2005/000326

Box No. I	Basis of this opinion
1.	<p>With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</p> <p><input type="checkbox"/> This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).</p>
2.	<p>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</p> <p>a. type of material</p> <p><input type="checkbox"/> a sequence listing</p> <p><input type="checkbox"/> table(s) related to the sequence listing</p> <p>b. format of material</p> <p><input type="checkbox"/> in written format</p> <p><input type="checkbox"/> in computer readable form</p> <p>c. time of filing/furnishing</p> <p><input type="checkbox"/> contained in the international application as filed.</p> <p><input type="checkbox"/> filed together with the international application in computer readable form.</p> <p><input type="checkbox"/> furnished subsequently to this Authority for the purposes of search.</p>
3.	<p><input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.</p>
4.	<p>Additional comments:</p>

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement																										
<p>1. Statement</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; vertical-align: top;">Novelty (N)</td> <td style="width: 10%; vertical-align: top;">Claims</td> <td style="width: 50%; border-bottom: 1px solid black;">1-7</td> <td style="width: 10%; text-align: right; vertical-align: bottom;">YES</td> </tr> <tr> <td></td> <td style="vertical-align: top;">Claims</td> <td style="border-bottom: 1px solid black;"></td> <td style="text-align: right; vertical-align: bottom;">NO</td> </tr> <tr> <td style="vertical-align: top;">Inventive step (IS)</td> <td style="vertical-align: top;">Claims</td> <td style="border-bottom: 1px solid black;">6</td> <td style="text-align: right; vertical-align: bottom;">YES</td> </tr> <tr> <td></td> <td style="vertical-align: top;">Claims</td> <td style="border-bottom: 1px solid black;">1-4, 5, 7</td> <td style="text-align: right; vertical-align: bottom;">NO</td> </tr> <tr> <td style="vertical-align: top;">Industrial applicability (IA)</td> <td style="vertical-align: top;">Claims</td> <td style="border-bottom: 1px solid black;">1-7</td> <td style="text-align: right; vertical-align: bottom;">YES</td> </tr> <tr> <td></td> <td style="vertical-align: top;">Claims</td> <td style="border-bottom: 1px solid black;"></td> <td style="text-align: right; vertical-align: bottom;">NO</td> </tr> </table>				Novelty (N)	Claims	1-7	YES		Claims		NO	Inventive step (IS)	Claims	6	YES		Claims	1-4, 5, 7	NO	Industrial applicability (IA)	Claims	1-7	YES		Claims		NO
Novelty (N)	Claims	1-7	YES																								
	Claims		NO																								
Inventive step (IS)	Claims	6	YES																								
	Claims	1-4, 5, 7	NO																								
Industrial applicability (IA)	Claims	1-7	YES																								
	Claims		NO																								
<p>2. Citations and explanations:</p> <p>Document 1: JP, 2001-301561, A (Chuo Hatsujo K.K.), 31 October, 2001 (31.10.01), full text (Family: none)</p> <p>Document 2: JP, 7-285412, A (Nippon Leinz K.K.), 31 October, 1995 (31.10.95), full text (Family: none)</p> <p>Document 3: JP, 7-285413, A (Nippon Leinz K.K.), 31 October, 1995 (31.10.95), full text (Family: none)</p> <p>Document 4: JP, 2000-342915, A (Koyo Tessen K.K.), 12 December, 2000 (12.12.00), full text (Family: none)</p> <p>Document 5: JP, 2001-171472, A (Fuji Filter Mfg. Co., Ltd.), 26 June, 2001 (26.06.01), full text (Family: none)</p> <p>Document 6: JP, 11-348712, A (Fuji Filter Mfg. Co., Ltd.), 21 December, 1999 (21.12.99), paragraph [0024] (Family: none)</p> <p>Claims 1-3</p> <p>Refer to the sections concerning materials for a filter in documents 1-4. As mentioned in document 5, it is well known that sintering at high temperatures after the winding and knitting is completed is preferable. The said document ([0016]) also mentions that the sintering temperatures are decided according to types of metal wires, etc. in a range of 500°C-1500°C. Accordingly, considering such well-known matters, a person skilled in the art could have easily made the sintering at temperatures above the melting point of a plating metal, and the said document ([0017]) mentions that the sintering is intended to join the overlapped parts of wires.</p> <p>It was well known at the time of filing of the present application that sintering can be a type of thermal treatment, as described in document 6.</p> <p>Claim 4</p> <p>Document 5 ([0016]) mentions that the sintering temperatures are decided according to the types of metal wires, etc. in a range of 500°C-1500°C, and the melting point of iron is 1535°C. Considering those matters, it would be easy to process at temperatures below the sintering temperature and above the melting point of the plating metal.</p> <p>Claim 5</p> <p>Refer to document 5 in paragraph [0011].</p> <p>Claim 6</p> <p>The subject matter of claim 6 is neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.</p>																											

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Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability:  
citations and explanations supporting such statement

Claim 7

Refer to document 5 in paragraphs [0018]-[0020].